

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/26381

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G06F 15/16; H04M 11/00
 US CL : 709/206, 207, 219, 227, 229, 248; 379/93.01, 93.02, 100.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 709/203, 206, 207, 219, 227, 228, 229, 248; 379/93.01, 93.02, 100.08; 455/411

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,163,274 A (LINDGREN et al.) 19 December 2000 (19.12.2000); abstract; Fig. 1-3; col. 1, line 5 - col. 2, line 12; col. 2, lines 30-52; col. 3, lines 5-20, 25-50	10, 15-18
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Y	US 6,526,274 B1 (FICKES et al.) 25 February 2003 (25.02.2003); abstract; Fig. 1-4, 7-9, 14; col. 1, lines 14-65; col. 3, lines 15-50; col. 5, lines 5-26; col. 6, line 29 - col. 7, line 37; col. 9, lines 35-40 and 50-55; col. 10, lines 25-30	1-9, 11-14
Y	US 6,563,800 B1 (SALO et al) 13 May 2003 (13.05.2003); abstract, Fig. 1B, 1C, 2, 5B, 7A, 7B; col. 1, line 1 - col. 4, line 35; col. 5, line 30 - col. 8, line 40	2-4, 11-13
A	US 6,549,939 B1 (FORD et al.) 15 April 2003 (15.04.2003); abstract; Fig. 1-3; col. 1, line 5 - col. 2, line 25	1-18
X, P	US 6,668,043 B2 (HYZIAK et al.) 23 December 2003 (23.12.2003); abstract; Fig. 1-4; col. 1, lines 10-37; col. 2, line 55 - col. 3, line 65; col. 3, lines 55-62; col. 4, lines 4-50	19-23
A	US 6,430,407 B1 (TURTIAINEN et al.) 06 August 2002 (06.08.2002); abstract; Fig. 1-6; col. 1, line 10 - col. 5, line 52	2-4, 11-14
A, P	US 6,668,167 B2 (MCDOWELL et al.) 23 December 2003 (19.12.2003); abstract; Fig. 1-11, 13-16; col. 1, line 15 - col. 3, line 10	19-23

Further documents are listed in the continuation of Box C.

See patent family annex.

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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"&" document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search

03 February 2004 (03.02.2004)

Date of mailing of the international search report

23 FEB 2004

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A, P	US 6,671,757 B1 (MULTER et al.) 30 December 2003 (30.12.2003); abstract; Fig. 7-11, 13-16; col. 1, line 5 - col. 4, line 40	1-18